

LUKASHOV, I.I., masluzhennyi deyatel' nauki USSR, professor.

Kharkov Veterinary Institute on the 32nd anniversary of the
October Revolution. Sbor.trud.Khar'.vet.inst. 20:3-7 '49.
(Kharkov--Veterinary colleges)

[E]
LUKASHQV, I. I., Prof., Dr., Merited Worker of Science of Ukrainian SSR
Kharkov Veterinary Institute

"On the etiology, pathogenesis, clinic and differential
diagnosis of otitis in piglets."

SO: Vet. 26 (10) 1949, p. 25

same in 1949 Letopis' No. 41, item 30443

LUKASHOV, I. I.

36803. LUKASHOV, I. I. i NIKITIN, M. G. Enzootiya Bolezni Aueski Sredi Ovets
i Rogatogo Skota. Veterinaya, 1949, No. 12, c. 15-17

SO: Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva. 1949

LUKASHEV, I. I.

"Tuberculosis of farm animals".

Kiev. Sel'khozgiz of Ukrainian SSR. 1952. 100 pages
with illustrations.

SO: Vet., Nov. 1952, Unclassified.

Lukashev, I. I.

IVANOVA, M.G.; GOL'DENBERG, I.Ya.; LUKASHEV, I.I.; KARUT, T.A.; KANDYBA, S.G.;
MIKHAYLICHENKO, P.M.; NAKHMANSON, G.L.

Studies on biological properties of *Mycobacterium tuberculosis muris*.
Probl. tuberk., Moskva no. 3:22-28 May-June 1952. (CITL 22:4)

1. Of the Ukrainian Tuberculosis Institute (Director -- Prof. B. M.
Khmel'nitskiy), Khar'kov.

LUKASHOV, I.I., professor, zaslushennyy deyatel' nauki Ukrainskoy SSR.

Epizootology and clinical aspects of infectious rhinitis deformans in young pigs. Sbor.trud.Khar'.vet.inst. 21:226-231 '52.
(MLRA 9:12)

1. Kafedra epizootologii Khar'kovskogo veterinarnogo instituta.
(Swine--Diseases) (Catarrh)

LUKASHOV, I.I., professor, doktor, zasluzhennyy deyatel' nauk Ukrainskoy
SSR ; NIKITIN, M.G., dotsent.

Vaccination against Aujeszky's disease. Sbor.trud.Khar'.vet.inst.
21:242-244 '52. (MLBA 9:12)

1. Kafedra epizootologii Khar'kovskogo veterinarnogo instituta.
(Pseudorabies) (Swine--Diseases and pests)

1. GOL'DENBERG, I. Ya., Prof.: LUKASHOV, I. I., Prof.: KARUT, T. A., D.V.M.
IVANOVA, M. I., D.V.M.: KANDYBA, S. G.: MYKHAYLECHENKO, P. M.
2. USSR (600)
4. Tuberculosis
7. Pathogenic properties of the culture of tuberculosis bacillus isolated from
field mice. Veterinariia 29, no. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

[illegible]

LUKASHOV, I. I., professor.; GOL'DENBERG, I. Ya., professor, [deceased].; IVANOVA, M. I., dotsent.; KARUT, T. A., dotsent.; MIKHAILICHENKO, P. M., vrach.; KANDYBA, S. G., vrach.

Studying sheep and swine for the pathogenic properties of a culture grown from tuberculosis bacilli isolated from field voles. Sbor. trud. Khar'. vet. inst. 22:248-251 '54. (MLRA 9:12)

1. Kafedra epizootologii Khar'kovskogo veterinharnogo instituta i tuberkuleznyy otdel Khar'kovskogo instituta epidemiologii i mikrobiologii imeni I. I. Mechnikova.
(Tuberculosis in animals)

LUKASHOV, I. I.

USSR/Medicine - Veterinary, Rhinitis

Card 1/1

Author : Lukashov, I. I., Professor, Honored Scientist of the Ukrainian SSR

Title : Epizootiology and clinical aspects of infectious deforming rhinitis in young pigs

Periodical : Veterinariya, 31, 32-34, Apr 1954

Abstract : Sporadic cases of rhinitis in young pigs were observed before the war, but it became more prevalent after the war was over. Rhinitis spreads rapidly on those farms where dampness, improper sewage disposal, congestion, and general unsanitary conditions are tolerated. Deficiency in essential vitamins in the diet may also cause rhinitis in pigs. Susceptibility to the disease is general among pigs that have low resistance. The disease in its primary stage can be easily overlooked; symptoms of the disease become clearly apparent only after complications have set in. Healthy pigs may give birth to offspring that have rhinitis and adult pigs that have rhinitis may give birth to healthy offspring.

Institution : Kharkov Veterinary Institute

Submitted :

LUKASHOV, I.I., prof.; NIKITINA, V.S., kand.vet.nauk

Prophylactic and therapeutic effect of gamma globulin in
Aujeszky's disease. Veterinariia 35 no.9:48-50 S '58. (MIRA 11:9)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk im. V.I. Lenina (for Lukashov). 2. Khar'kovskiy veterinarnyy
institut.

(Gamma globulin) (Pseudorabies)

LUKASHEV, I.I., prof.; NIKITINA, V.S., kand. veterinarnykh nauk; NIKITIN, M.G.,
kand. veterinarnykh nauk

Prophylactic and therapeutic action of gamma globulin in Aujeszky's
disease. Veterinariia 36 no.9:24-26 S '59. (MIRA 12:12)

1.Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni V.I. Lenina (for Lukashev). 2.Khar'kovskiy veterinarnyy
institut (for Nikitina, Nikitin).
(Pseudorabies) (Gamma globulin)

LUKASHEV, I.I., prof., doktor, zasluzhenyy deyatel' USSR; PETRENKO, G.G., kand. veterinarnyykh nauk; ANDRIYAN, Ye.A., veterinarnyy vrach

Research on methods for preventing infectious atrophic rhinitis
in swine. Veterinariia 36 no.11:16-18 N '59 (MIRA 13:3)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina (for Lukashev). 2. Khar'kovskiy veterinarnyy institut (for Andriyan).
(Swine--Diseases and pests)

LUKASHEV, I.I., prof.

Catarrhal fever in sheep. Veterinariia 37 no.3:32-34 Mr '60.
(MIRA 16:6)

1. Chlen--korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni Lenina.
(Catarrhal fever) (Sheep--Diseases and pests)

LUKASHEV, I.I., prof.; PETRENKO, G.G.

Etiology and pathogenesis of atrophic rhinitis in young pigs.
Veterinariia 37 no.9:36-37 S '60. (MIRA 14:11)

1. Khar'kovskiy veterinaryyy institut. 2. Chlen-korrespondent
Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk imeni Lenina
(for Lukashev).

(Swine--Diseases and pests)

LUKASHEV, Ivan Ivanovich, prof'.; BESKHLEBNOV, Yu.A. , red.; PROKOF'YEVA, L.N.,
tekhn. red.

[Specialized epizootology] Chastnaia epizootologiya. Moskva, Gos.
izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961. 301 p.
(MIRA 14:8)

1.Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh nauk
im. V.I.Lenina i Khar'kovskiy zooveterinarnyy institut (for Lukashev)
(Veterinary medicine)

LUKASHEV I. I. (Corresponding Member of VASKHNIL, Honored Scientist) and
PETRENKO G. G. (Candidate of Veterinary Sciences. Kharkov Zooveterinary
Institute)

"Diagnostic importance of discovering inclusion bodies during
atrophic rhinitis in piglets."

Veterinariya, Vol. 38, No. 12, December 1961, P. 28.

LUKASHEV, I.I., zasluzhennyy deyatel' nauki UkrSSR; NIKITIN, M.G., dotsent

Gamma globulin in treating Anjeszky's disease in cattle.
Veterinariia 39 no.6:29-30 Je '62 (MIRA 18:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystven-
nykh nauk imeni Lenina (for Lukashev). 2. Khar'kovskiy zooveteri-
narnyy institut (for Nikitin).

LUKASHEV, I. I. (Corresponding Member of VASKHNIL, Honored Scientist of the Ukrainian SSR) and NIKITIN, M. G. (Assistant Professor, Khar'kov Zooveterinary Institute)

"Gamma globulin in Aujeszky's disease of cattle"
Veterinariya, vol. 39, no. 6, June 1962 pp. 29

LUKASHEV, I. I., BOTOV, V. I. (Professors), ROZHNYATOVSKAYA, O. I. (Veterinary Doctor, Khar'kov Zooveterinary Institute).

"Detection of Paratuberculosis mycobacteria in the sperm of bulls"

Veterinariya, vol. 39, no. 9, September 1962, p. 28

LUKASHEV, I.I., prof.; ROTOV, V.I., prof.; ROZHNATOVSKAYA, O.I.,
veterinarnyy vrach

Detection of Mycobacterium paratuberculosis in the sperm of bulls.
Veterinariia 39 no.9:28-30 S '62. (MIRA 16:10)

1. Khar'kovskiy zooveterinarnyy institut.

VERESHCHAGIN, M.N., prof.; LUKASHEV, I.I., prof.; DOROFEYEV, K.A., prof.;
PRITULIN, P.I., doktor veterin. nauk

Infection focuses. Veterinariia 41 no.4:25-31 Ap '64.

(MIRA 17:8)

1. Kazanskiy veterinarnyy institut (for Vereshchagin, Dorofeyev).
2. Khar'kovskiy zooveterinarnyy institut (for Lukashev).

L 25549-66 EVF(1)/T JK

ACC NR: AP6016388 (A)

SOURCE CODE: UR/0320/65/000/007/0104/0106

AUTHOR: Lukashev, I. I. (Professor; Corresponding member VASKHNIL)

ORG: Khar'kov Veterinary Institute (Khar'kovskiy veterinarnyy institut)

TITLE: Prophylactic and therapeutic effect of gamma-globulin used in treating Aujeszky's disease

SOURCE: Vestnik sel'skokhozyaystvennoy nauki, no. 7, 1965, 104-106

TOPIC TAGS: gamma globulin, animal disease therapeutics, virus disease, animal disease, commercial animal, serum, rabbit

ABSTRACT: The author's studies on the use of gamma-globulin against the virus of Aujeszky's disease were begun in 1955. Since 1956, extensive experiments have dealt with the prophylactic and therapeutic action of the preparation in farms affected by this disease. As the crude material used to obtain gamma-globulin, hyperimmune serum for Aujeszky's disease was used, produced by the Soviet biochemical industry. Some series of gamma-globulin were prepared in the laboratory of the Serum Institute imeni I. I. Mechnikov in Khar'kov. The preparation was obtained by alcohol precipitation in the cold, which assures an adequate gamma-globulin yield and prevents protein denaturation. In the experiments

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UDC: 616.988.23:616.831.8

L 25549-66

ACC NR: AP6016388

a 10% solution of dry gamma-globulin (in physiological solution) was used. Initially, a comparative experiment was conducted on the neutralization of Aujeszky's disease virus with a 10% gamma-globulin solution and with serum produced by the Soviet biochemical industry. The experiments were conducted on rabbits. In order to neutralize the virus, killing doses of gamma-globulin and serum were administered, to which the virus was added in the form of a tissue suspension in 1:100 dilution. The mixture of virus and gamma-globulin and serum was placed for two hours in a thermostat to neutralize the virus, after which the material was administered in 2 ml doses in experimental rabbits. All the rabbits receiving the serum in a mixture with gamma-globulin survived, but those which received the virus and serum succumbed. The control rabbit also became affected and succumbed. The minimum dose of the 10% gamma-globulin solution neutralizing the virus proved to be 0.001 mg, denoting high activity of the preparation compared to the serum. Another experiment was carried out on piglets aged three months. Two were given 10% gamma-globulin in a dose of 1 ml and a second pair, in a dose of 2 ml. The fifth piglet was the control. In 24 hours the animals were infected with a virulent tissue suspension of rabbit organs in a dose of 1.5 ml in a 1:100 solution. All the experimental pigs survived with the exception of the control, which became ill with the clinical characteristics of Aujeszky's disease. In this way, the piglet experiment showed

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ACC NR: AP6016388

that gamma-globulin in a dose of 1-2 ml of a 10% solution is prophylactic and protects piglets against infection with Aujeszky's disease virus. In order to verify the longevity of the immunity, the surviving piglets were once again infected with virus containing 10 lethal doses 21 days after the beginning of the experiment. The experimental animals did not become ill, which evidenced that they had well-pronounced nonsusceptibility, lasting for three weeks. Gamma-globulin was used in five farms in Khar'kovskaya Oblast that were affected with Aujeszky's disease on 5,232 piglets. The results were also positive. [JPRS]

SUB CODE: 02 / SUBM DATE: none

Card 3/3

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																									
PROCESSES AND PROPERTIES - INDEX																										PROCESSES AND PROPERTIES - INDEX																									
CA The geochemical characteristics of types of weathering crust found in Soviet Russia. K. I. Lukashev. <i>Priloga</i> 27, No. 10, 88-100(1938); <i>Chem. Zvesti.</i> 1939, 1, 386-415. —The following kinds of weathering crust were studied: breccia-clay, sialite-clay, sialite-carbonate, sialite-chloride-sulfate, allite (laterite-red earth). The conditions for the formation of these different types and their characteristic properties are discussed. M. G. Moore.																										P																									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																										ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																									

LUKASHEV, K.I.

Mar/Apr 52

USSR/Geophysics - Geopolitics

"Imperialistic Concepts of Present-Day American Pseudo-Geography," K. I. Lukashev, Faculty of Geog, Moscow State U imeni Lomonosov

"Iz Ak Nauk SSSR, Ser Geograf" No 2, pp 36-46

States that with the downfall of Germany, Italy, and Japan and with the decline of Britain and France now only US maintains the dominant position in world capitalist markets, and has become the main force for the preservation of imperialistic capitalism. Illustrates how American and other geographers serve in this connection. Cites following works: Mackinder,

219T61

"Britain and British Seas," 1902; Renner, "Human Geography in the Air Age," 1943; Renner, "Global Geography," 1945; Spykman, "The Geography of the Peace," 1943.

219T61

LUKASHEV, K. I.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Lukashev, K. I.	"Mineral Raw Material Resources in Capitalist Countries"	Department of Physicomathematical and Technical Sciences Belorussian SSR
	"Bourgeois Pseudoscientific Geography in the Service of Reaction"	

SO: W-30604, 7 July 1954

LUKASHEV, K.I.; KOROVNIKOV, V.I., redaktor; ROZIN, M.S., redaktor; GLEYKH, D.A.,
tekhnicheskii redaktor.

[Bourgeois pseudoscientific geography in the service of reaction]
Burzhuaznaia lzhenauchnaia geografiia na sluzhbe reaktsii. Moskva. Gos.
izd-vo geogr. lit-ry, 1953. 111 p. (MLRA 7:7)
(Geography)

LUKASHEV, K.I.

LUKASHEV, K.I., professor; ROZIN, M.S., redaktor; VARAKIN, I.M., redaktor.

[Mineral resources in capitalist countries; fuel and power raw materials and metal ores] Resursy mineral'nogo syr'ia v kapitalisticheskikh stranakh; toplivnoenergeticheskogo syr'ia metallicheskie poleznye iskopaemye. Moskva, Vneshtorgizdat, 1953. 222 p.

(MLRA 7:1)

(Mines and mineral resources) (Coal mines and mining)
(Petroleum)

LUKASHEV, K.I.

Geostrategic "conceptions" of American geopoliticians. Izv.Vses.geog.ob-va
85 no.4:423-433 J1-Ag '53. (MLRA 6:8)
(United States--Geopolitics) (Geopolitics--United States)

LUKASHEV, K.I., professor; DEMENT'YEV, V., redaktor; GURVICH, G., tekhnicheskii redaktor

[Principal genetic types of Quaternary deposits of the U.S.S.R.]
Osnovnye geneticheskie tipy chetvertichnykh otlozhenii SSSR. Minsk,
Izd-vo Belorusskogo gos.univ. im. V.I.Lenina, 1955. 256 p.
(Geology, Stratigraphic) (MLRA 9:11)

LUKASHEV, K.I.

The role of the processes of catagenesis in the modification of rocks. K. I. Lukashov. *Izvest. Akad. Nauk Beloruss. S.S.R.* 1955, No. 1, 47-51 (in Russian). - A discussion with 9 references.

E. Wierbicki

KI
8/24

LUKASHEV, K.I., akademik; AVSENT'YEV, A.N., kandidat geologo-mineralogicheskikh nauk, redaktor; KHOLYAVSKIY, S., redaktor izdatel'stva; ALEKSANDROVICH, Kh., tekhnicheskij redaktor

[Rare metals and their use in industry] Redkie metally i ikh ispol'zovanie v promyshlennosti. Minsk, Izd-vo Akademii nauk BSSR, 1956. 178 p. (MLR# 10:1)

1. Akademiya nauk BSSR (for Lukashov)
(Metals)

LUKASHEV, K.I., akademik; LUPINOVICH, I.S., nauchnyy redaktor; SHCHERBINA, V.N., nauchnyy redaktor; KISHCHENKO, L., redaktor; GURVICH, G., tekhnicheskiiy redaktor

[Geochemical types of weathering zones in Soviet territory] Zonal'-nye geokhimicheskie tipy kory vyvetrivanija na territorii SSSR. Minsk, Izd-vo Belorusskogo gos. univ. im. V.I.Lenina, 1956. 304 p. (MIRA 10:2)

1. Akademiya nauk BSSR (for Lukashev)
(Weathering) (Geochemistry)

LUKASHYEV, K. I.

15-57-7-9486

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 7,
pp 108-109 (USSR)

AUTHOR: Lukashov, K. I.

TITLE: The Geological and Geochemical Significance of Biogenetic Processes (Geologicheskoye i geokhimicheskoye znacheniye protsessov biogeneza--in Belorussian)

PERIODICAL: Izv. AN BSSR, ser. fiz.-tekhn. n., 1956, Nr 1, pp 65-75.

ABSTRACT: The author makes a survey of the literature on the geochemical significance of activity by organisms. It is recognized that the biochemical mobility of elements on land depends not only on the solubility of their compounds but also on the biogeochemical role of organisms. Taking part in weathering and soil formation, animals mobilize the mineral substance of soils, the atmosphere, and the hydrosphere. After the death of the organisms, these substances are introduced into a new cycle of geochemical migration, accumulation, and dissemination, depending on the natural environment.

Card 1/1

O. V. Bryzgalin

^{EV}
LUKASHOV, K.I.

Formation and characteristics of loess soils, Vestsi AN BSSR. Ser.
fiz.-tekhn. nav. no. 4:5-14 '56. (MIRA 10:6)
(Loess)

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 5, 15-57-5-6369
p 98 (USSR)

AUTHOR: Lukashev, K. I.

TITLE: The Scientific and Practical Value of Studying the
Crust of Weathering (Nauchnoye i prakticheskoye zna-
cheniye izucheniya kory vyvetrivaniya)

PERIODICAL: Uch. zap. Belorus. in-t, 1956, vol 28, pp 125-134.

ABSTRACT: The author discusses the study of the weathering crust
as a means of solving scientific and practical problems:
paleogeographic, engineering geological, technological,
agricultural, and geological prospecting. The following
basic problems are raised: 1) the study of different
formations and mineral deposits in association with
tectonic and climatic environments; 2) the study of
sediment accumulation, sedimentary differentiation and
concentration, and different physico-chemical environ-
ments; 3) the study of the systematic geochemical,
mineralogical, and grain-size composition of mineral

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15-57-5-6369

The Scientific and Practical Value of Studying (Cont.)

deposits; 4) the study of the geochemical processes associated with weathering and development of the crust of weathering; 5) the treatment of classifications of deposits in the crust of weathering with consideration of genesis, morphology, and mineral content; 6) the treatment of guide features and indicators for prospecting in individual genetic types of weathering crusts.

V. A. V.

Card 2/2

Лукashev K.I.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26562.

Author : Lukashev, K.I.

Inst : White Russian University.

Title : Processes of Hydrogenesis and Formation of
Karst Crust of Weathering.

Orig Pub : Uch. zap. Beloruss. un-ta, 1956, vyp. 28,
135 - 142.

Abstract : The processes of karst formations (KF) taking
place in easily soluble rocks - limestones,
dolomites, gypsum, anhydrides, salts - depend
on fissures in the rock, on the composition of
water (in particular on the presence of CO₂),
on the rising and sinking of the erosion base
and on the peculiarities of the draining. Ore
occurrences are formed in karst under the condi-
tions of open water reservoirs, or under the

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USSR/Cosmochemistry. Geochemistry. Hydrochemistry. D

Abs Jour : Ref Zhur - Khimiya, No. 8, 1957, 26562.

influence of ore solutions carrying hydroxides of Fe, Mn, Ni, Si on the rocks of a closed karst. It was noted that in case of Fe-Ni occurrences, Fe was deposited in the upper and border parts, and Ni in the deep parts of the karst, because pH of Ni hydroxide is 6.7, and pH of Fe hydroxide is 2.3, which results in the precipitation of Fe hydroxide in an earlier stage, Ni compounds migrating into lower depths.

Card 2/2

LUKASHEV, K.I.

Geographic zonality of geochemical processes in the zone of
weathering. Izv.Vses.geog.ob-va 88 no.6:501-512 N-D '56.
(MLRA 10:2)

(Geochemistry) (Weathering)

LUKASHEV, K.I.

USSR/Cosmochemistry. Geochemistry. Hydrochemistry.

D

Abs Jour : Referat. Zhurnal Khimiya, No 6, 1957, 18944.

Author : K.I. Lukashev.

Inst : University of White Russia.

Title : Scientific and Practical Importance of Studying
Weathering Crust.

Orig Pub : Uch. Zap. Belorus. Un-ta, 1956, vyp.29, 125-134.

Abstract : No abstract.

Card 1/1

-57-

LUKASHEV, K

"The Quarternary (Anthropogens) Sediments of the USSR Territory and Problems of Their Study,"

paper presented by Lukashev at the Fifth International Congress of INQUA (International Association on Quaternary Research) Madrid, September 1957.

Available in Lib. Ref. B-3,094,292, 18 Dec 57

LUKASHEV, KONSTANTIN IGnat'yevich

PHASE I BOOK EXPLOITATION 665

Lukashev, Konstantin Ignat'yevich

Geokhimicheskiye protsessy migratsii i kontsentratsii elementov v biosfere (Geochemical Processes in the Migration and Concentration of Elements in the Biosphere) Minsk, Izd-vo Belgosuniversiteta, 1957. 218 p. 2,000 copies printed.

Ed.: Kishchenko, I.V.; Tech. Ed.: Gurvich, G. Ye.

PURPOSE: The book aims at acquainting geologists and exploration geophysicists with the fundamentals of geochemistry and geochemical study of biosphere.

COVERAGE: The book is not a scientific contribution to the subject of geochemical research, but a concise recapitulation of recent theories and problems and a summary of available data. In the introduction the author defines the term "biosphere," as it is used in modern Soviet scientific literature. Following the

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Geochemical Processes in the Migration (Cont.) 665

definition given to this term by V.I. Vernadskiy, biosphere includes the upper geosphere (down to 5 km below surface), the entire hydrosphere, and the near-surface troposphere. Another term requiring redefinition is "hypergene" (supergene), meaning a complex of geochemical processes of decomposition and dislocation of mineral elements in the earth's crust. The author describes, analyzes, and evaluates all the main factors responsible for the processes of migration, dissemination, and concentration of chemical elements, together with the prevalent environmental conditions. Special attention is given to V.I. Vernadskiy's ideas and theories on "geochemical correlation" of elements (paragenesis) and on the nature of minerals and their behavior. Following A.Ye. Fersman, the author clarifies the problem of dependence of migration processes on both the atom structure of the mineral and the outer conditions of its occurrence. The author acknowledges the contributions of G.V. Bogomolov (corresponding member of the

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Geochemical Processes in the Migration (Cont.) 665

Belorussian Academy of Sciences), V.A. Kovda (corresponding member of the Academy of Sciences, USSR), Docent S.G. Dromashko, N.F. Yermolenko (member of the Belorussian Academy of Sciences), and B.I. Stepanov (member of the Belorussian Academy of Sciences). There are 28 tables, 10 figures, 80 Soviet references, and 33 English. The appendix contains: The table of stable and long half-life isotopes (compiled by S.A. Shchukarev); structures of electron shells of chemical elements from hydrogen to actinium, according to V.N. Gol'danskiy); average content of chemical elements in earth's crust; average content of minerals in soil, according to A.P. Vinogradov, 1956); average chemical content of sea water (by weight), according to A.P. Vinogradov; average content of elements (biophiles) in the bodies of living organisms (according to A.P. Vinogradov); average content of chemical elements in various types of rock (according to A.P. Vinogradov, 1956); average chemical composition of sands of Russkaya platforma (European-Russian Table-land), analyzed by weight, according to A.P. Vinogradov;

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Geochemical Processes in the Migration (Cont.) 665

table of main components of carbonate rocks, sands, clays, etc., according to Mason, Clarke, A.P. Vinogradov, and others; average composition (by weight) of clays of European-Russian Tableland, according to A.P. Vinogradov, 1956; pH-value of cations in measuring alkalinity, according to A.Ye. Fersman; pH -value of anions in measuring acidity, according to A. Ye Fersman; ionic radiuses of elements, according to V.M. Gol'dshmidt (Goldschmidt); ionization potentials of main chemical elements (according to V.M. Gol'dshmidt, 1954); list of minerals (with their chemical formulas and chemical compositions), based on data by A.G. Betekhtin (1956).

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Geochemical Processes in the Migration (Cont.) 665

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(White Russia--Maps)

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(Science)

3(5)

PHASE I BOOK EXPLOITATION

SOV/2077

Akademiyu nauk Belorusskoy SSR, Minsk. Institut geologicheskikh nauk

Trudy, Vyp. 1 (Transactions of the Institute of Geological Sciences of the Belorussian SSR Academy of Sciences) Nr 1. Minsk, 1958. 227 p. 700 copies printed. Errata slip inserted.

Editorial Board: A.N. Avksent'yev, A.V. Fursenko, and V.N. Shcherbina;
Ed. of Publishing House: Ye. G. Barabanova; Tech. Ed.: I. Volokhanovich.

PURPOSE: This issue of the Institute's Transactions is intended for geologists interested in both the physical and historical geology of Belorussia.

COVERAGE: This collection of articles on the geology of Belorussia has been prepared by members of that republic's Geological Institute. Individual papers discuss the prospects of future development of Belorussia's geological and geophysical studies, problems in the petrography of sedimentary rocks, and questions in paleontology and hydrogeology. Among the papers on historical geology are a study of the development of Foraminifera and one on spore-pollen analysis of Lower Carboniferous horizons. References accompany each article.

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Transactions of the Institute (Cont.)

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NESTSYAROVICH, M.D., red.; GLEBKO, P.F. [Hlebka, P.F.], red.;
SUDNIK, M.R., red.; PERTSOV, U.M. [Pertsau, U.M.], red.; VINOKUROV,
P.P. [Vinakurau, P.P.], red.; BYAL'KEVICH, P.I., red.; VALAKHANOVICH,
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(White Russia--Geochemistry)

LUKASHEV K.I.

AUTHOR: Bondarchuk, V.G. and Lukashev, K.I.

10-58-3-2/29

TITLE: The Fifth Congress of the International Association for Study of the Quaternary Period (V kongress mezhdunarodnoy assotsiatsii po izucheniyu chetvertichnogo perioda)

PERIODICAL: Izvestiya Akademii Nauk SSSR - Seriya Geograficheskaya, 1958, Nr 3, pp 10-16 (USSR)

ABSTRACT: From August to September 1957, the 5th International Congress for the study of the Quaternary Period was held in Spain (Madrid and Barcelona). Representatives from 33 countries attended. The Soviet delegation consisted of the following eight scientists: K.I. Lukashev (Head of Delegation), V.G. Bondarchuk, I.S. Rozhkov, Ye.V. Shantser, K.K. Markov, A.K. Matveyev, I.I. Krasnov and K.V. Nikiforov. Besides these 8 members of the Soviet delegation, the following scientists presented reports: I.P. Gerasimov, V.I. Gromov, M.M. Tsapenko and S.A. Yakovlev. Altogether, there were 14 Soviet reports in the sections and commissions of the Congress. The Soviet scientists were represented in all commissions and subcommissions.

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